

Title (en)  
METHOD FOR THE CONVERSION OF A VIDEO SIGNAL DISPLAY FREQUENCY

Publication  
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Application  
**EP 89312265 A 19891127**

Priority  
FI 885725 A 19881209

Abstract (en)  
[origin: EP0372774A2] The invention relates to a method wherein it is possible, by digital signal processing taking place in the receiver, to reduce errors caused in a television picture by an interlaced transmission standard and a low field frequency. The transmitted interlaced (50 Hz/2:1) signal is converted in the receiver either to a non-interlaced (50 Hz/1:1) signal or to an interlaced (100 Hz/2:1) signal. The higher display frequency transfers the errors to higher frequencies, whereupon they no longer disturb the viewer. The conversion takes place by means of a weighted median filter operating in a 3\*3 window. In the window, the first line is from the preceding field in the memory and the two others are from the latest received field. The filter interpolates a new dot according to these data. The structure of the filter selects implicitly temporal interpolation in a stationary picture and spatial interpolation for moving objects. By altering the coefficients of the weighted median filter it is possible to optimize the filter to operate either in a moving picture or in a stationary picture. The method can be carried out using a VLSI circuit. <IMAGE>

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IPC 8 full level  
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CPC (source: EP)  
**H04N 7/012** (2013.01); **H04N 7/0132** (2013.01); **H04N 19/577** (2014.11); **H04N 19/80** (2014.11)

Citation (search report)  
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• [A] EP 0239800 A2 19871007 - BOSCH GMBH ROBERT [DE]  
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• [A] 1986 IEEE INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS, ICCE 1986, DIGEST OF TECHNICAL PAPERS, 3-6 JUNE 1986 'T.DOYLE: "MEDIAN FILTERING OF TELEVISION IMAGES" PAGES 186-187'

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